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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,523	10/25/2002	David W. McCulloch	3810.19	2139

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EXAMINER
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GAY, JENNIFER HAWKINS

ART UNIT	PAPER NUMBER
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3672

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Interview Summary</b>	<b>Application No.</b> 10/065,523	<b>Applicant(s)</b> MCCULLOCH ET AL. 	
	<b>Examiner</b> Jennifer H Gay	<b>Art Unit</b> 3672	

All participants (applicant, applicant's representative, PTO personnel):

(1) Jennifer H Gay. (3)\_\_\_\_\_.

(2) Marc Hubbard. (4)\_\_\_\_\_.

Date of Interview: 20 December 2004.

Type: a)☒ Telephonic b)☐ Video Conference  
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☐ No.

If Yes, brief description: Purposed claim amendment (Attachment A).

Claim(s) discussed: 1-35.

Identification of prior art discussed: Sizer et al. (US 4,251,176).

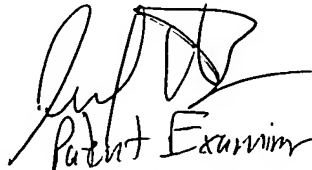
Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
Patent Examiner  
Art # 3672

Examiner's signature; if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's attorney contacted the examiner to inquire if the proposed claim amendments faxed to the examiner would place the case in condition for allowance. After briefly reviewing the suggested changes, the examiner stated that because the case was After Final the added limitation would not place the case in condition for allowance. The further defining of the telescoping arms as being "load bearing" does not place the case in condition for allowance because it is a limitation that was not previously searched. Applicant's attorney expressed the opinion that the arms as recited in the claims prior to the amendment would have to be load bearing in order to lift the oilfield apparatus this the added language was not a new limitation and that the arms of Sizer et al. were not load bearing thus did not read on the claims prior to the amendment. The examiner stated that Sizer et al. taught that it was the raising and lowering of the two arms that moved a crown assembly which in turn moved an oilfield apparatus thus the reference did read over the claims and that the limitation of "lifting the oilfield apparatus by extending the at least two telescoping arms" was broad enough to encompass the arms taught by Sizer et al. Applicant's attorney indicated that he still disagreed but that they would decide how to proceed with the case..

Attachment A

**PROPOSED CLAIMS**  
**(FOR REVIEW BY EXAMINER – NOT TO BE FILED)**

1. (Currently Amended) A method for hoisting and positioning oilfield apparatus over a well head, comprising:  
coupling the oilfield apparatus to a mast having at least two telescoping load bearing arms;  
lifting the oilfield apparatus by extending the at least two telescoping arms; and  
pivoting the at least two telescoping load bearing arms to position the oilfield apparatus over the wellhead.
2. (Currently Amended) The method of claim 1, wherein the at least two telescoping load bearing arms of the mast are pivotally mounted to a vehicle.
3. (Currently Amended) The method of claim 1, wherein at least one of the at least two telescoping load bearing arms includes a plurality of segments and a self-locking jack screw for extending a first one of the plurality of segments with respect to a second one of the plurality of segments.
4. (Currently Amended) The method of claim 3, wherein the at least one of the at least two telescoping load bearing arms includes a lifting chain for telescopically extending a third one of the plurality of segments out of the second one of the plurality of segments as the second of the plurality of segments is extending.
5. (Previously Presented) The method of claim 1, further comprising automatically limiting the degree to which the at least two arms may be pivoted based on an amount the at least two arms are extended.
6. (Previously Presented) The method of claim 5, wherein automatically limiting the degree to which the at least two arms may be pivoted includes moving, with respect

to points around which the at least two arms are pivoting, a mounting point of a mechanism causing pivoting of the at least two arms based on the amount the at least two arms are extended.

7. (Original) The method of claim 1, wherein the mast is mounted to a rear portion of a vehicle for transporting the mast to the well head.

8. (Currently Amended) A method for hoisting oilfield apparatus over a well head, comprising;

transporting the oilfield apparatus and a mast to well head on a vehicle, the mast having at least two telescoping load bearing arms pivotally mounted to the vehicle;

coupling the oilfield apparatus to the mast when the mast is in a retracted position;

lifting the oilfield apparatus by extending the at least two telescoping load bearing arms; and pivoting the at least two telescoping load bearing arms to position the oilfield apparatus over the wellhead.

9. (Currently Amended) The method of claim 8, wherein at least one of the at least two telescoping load bearing arms includes a plurality of segments and a self-locking jack screw for extending a first one of the plurality of segments with respect to a second one of the plurality of segments.

10. (Currently Amended) The method of claim 9, wherein the at least one of the at least two telescoping load bearing arms includes a lifting chain for telescopically extending a third one of the plurality of segments out of the second one of the plurality of segments as the second of the plurality of segments is extending.

11. (Currently Amended) The method of claim 8, further comprising automatically limiting a degree to which the at least two telescoping arms load bearing may be pivoted based on the amount of extension of the at least two arms.

12. (Currently Amended) The method of claim 11, wherein automatically limiting the degree to which the at least two arms may be pivoted includes moving, with respect to points around which the at least two telescoping load bearing arms are pivoting, a mounting point of a mechanism causing pivoting of the at least two arms based on the amount the two arms are extended.

13. (Original) The method of claim 8, wherein the oiled field apparatus includes a coiled tubing injector.

14. (Original) The method of claim 13, further comprising transporting a blowout preventer on the vehicle, wherein the coiled tubing injector and blowout preventer are transported between the at least two arms and the blowout preventer and coiled tubing injector are mounted to pivot with the mast between a stowed position and an upright position.

15. (Currently Amended) The method of claim 13, further comprising, after lifting the coiled tubing injector and before pivoting the at least two telescoping load bearing arms to position the coiled tubing injector over the wellhead, lowering the coiled tubing injector by retracting the at least two telescoping load bearing arms and attaching it to a blowout preventer held in an upright position between the at least two legs.

16. (Original) The method of claim 8 wherein the oilfield apparatus is placed between the at least two legs during transporting the oilfield apparatus and the mast on the vehicle, the oilfield apparatus being transported to the site on the vehicle on a mounting that pivots with the at least two legs of the mast between a stowed position and at least an upright position.

17. (Currently Amended) Apparatus for hoisting oilfield apparatus over a well head, the apparatus comprising a mast assembly with at least two telescoping load bearing arms coupled pivotably coupled to a support base, the plurality of arms each comprising a plurality of synchronously operable telescoping segments for extending and retracting in

unison, whereby oilfield apparatus mounted between the at last two arms may be lifted and positioned over a well head.

18. (Currently Amended) The apparatus of claim 17, wherein at least one of the at least two telescoping load bearing arms includes a self-locking jack screw for extending a first one of the plurality of segments of the at least one of the at least two telescoping load bearing arms with respect to a second one of the plurality of segments of the at least one of the at least two telescoping load bearing arms.

19. (Currently Amended) The apparatus of claim 18, wherein the at least one of the at least two telescoping load bearing arms includes a lifting chain for telescopically extending a third one of the plurality of segments out of the second one of the plurality of segments as the second one of the plurality of segments is extending.

20. (Original) The apparatus of claim 17, wherein the mast assembly is mounted to a rear portion of a vehicle for transporting the mast assembly.

21. (Currently Amended) The apparatus of claim 17 further including a mechanism coupled between the mast assembly and the support base for pivoting the at least two telescoping load bearing arms.

22. (Currently Amended) The apparatus of claim 21, wherein the mechanism for pivoting the at least two telescoping load bearing arms has a limited range and is coupled at one end to a movable mounting.

23. (Original) The apparatus of claim 22, further including a mechanism for moving the mounting automatically based on the extension of the at least two arms, whereby pivoting of the arms in at least one direction is limited by the amount of extension of the at least two arms.



24. (Original) The apparatus of claim 21, wherein the mechanism for pivoting includes a hydraulic cylinder.
25. (Currently Amended) The apparatus of claim 17 further including a mounting for transporting oilfield apparatus, the mounting being disposed between the at least two telescoping load bearing arms and moving with the mast assembly as it pivots between a stowed position and at least an upright position.
26. (Currently Amended) The apparatus of claim 17, further including a cross member coupled between ends of the at least two telescoping load bearing arms, the cross member including a latch to which oilfield apparatus may be attached for lifting by the mast assembly.
27. (Currently Amended) The apparatus of claim 26, further comprising a coiled tubing mounting and a blowout preventer mounting disposed between the at least two telescoping load bearing arms, wherein the cross member including trolley for moving laterally the latch.
28. (Currently Amended) The apparatus of claim 27, wherein the blowout prevent mounting slides laterally between the at least two telescoping load bearing arms.
29. (Currently Amended) A vehicle for hoisting oilfield apparatus over a well head comprising a mast assembly with at least two telescoping load bearing arms coupled pivotably coupled to a rear of the vehicle, the plurality of arms each comprising a plurality of synchronously operable telescoping segments for extending and retracting in unison, and a mounting for transporting oilfield apparatus, the mounting being disposed between the at least two telescoping load bearing arms and moving with the mast assembly as it pivots between a stowed position and at least an upright position.

30. (Currently Amended) The vehicle of claim 29 further including a mechanism coupled between the mast assembly and the vehicle for pivoting the at least two telescoping load bearing arms.

31. (Currently Amended) The vehicle of claim 30, wherein the mechanism for pivoting is limited in extension and is coupled at one end to a movable mounting, the movable mounting having a mechanism for moving the mounting in response to extension of the at least two telescoping load bearing arms.

32. (Currently Amended) The vehicle of claim 29, further including a cross member coupled between ends of the at least two telescoping load bearing arms, the cross member including a latching mechanism to which oilfield apparatus may be attached for lifting by the mast assembly.

33. (Previously Presented) The vehicle of claim 29, wherein the mounting includes a coiled tubing injector support and a blow out preventer support.

34. (Currently Amended )The vehicle of claim 33, further including a cross member coupled between ends of the at least two telescoping load bearing arms, the cross member including a latch to which oilfield apparatus may be attached for lifting by the mast assembly and a trolley for moving laterally the latch.

35. (Currently Amended) The vehicle of claim 33, wherein the blowout preventer support slides laterally between the at least two telescoping load bearing arms.